pplicant: Wilkinson et al.
he: Using a High Levei Programming Language with a Martin Serial No. 10/037,390
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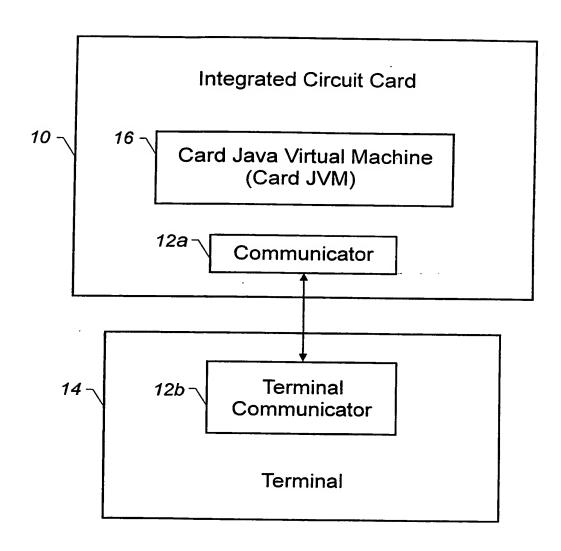


FIGURE 1

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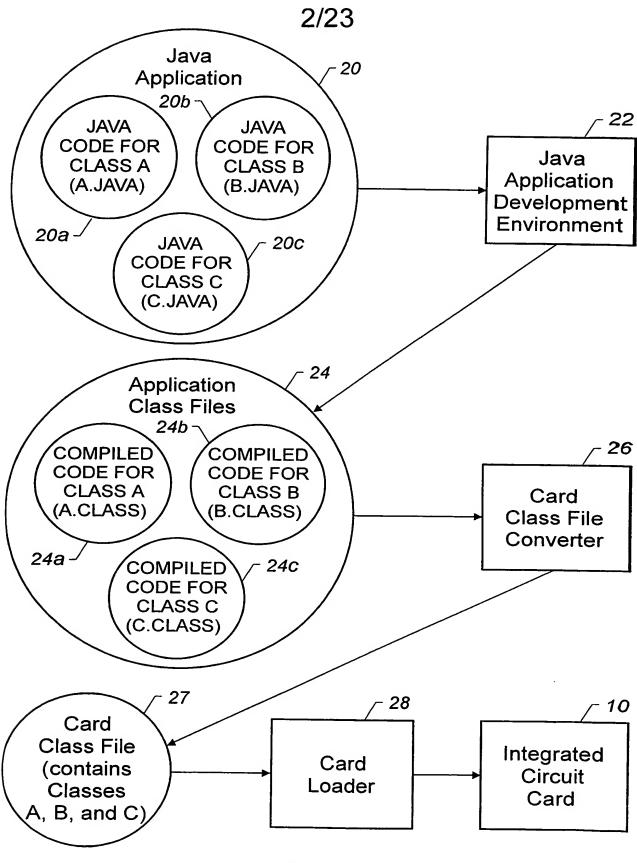


FIGURE 2

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le: Using a High Level Programming Language with a number of the number

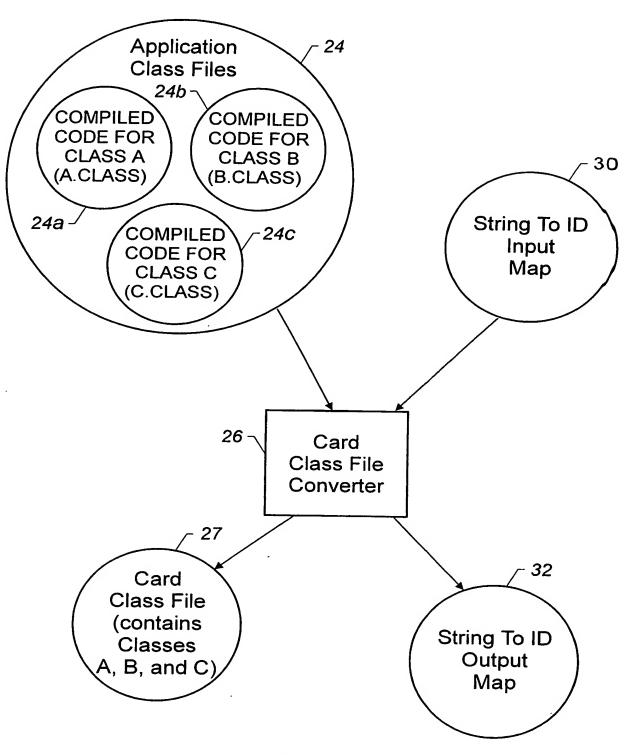


FIGURE 3

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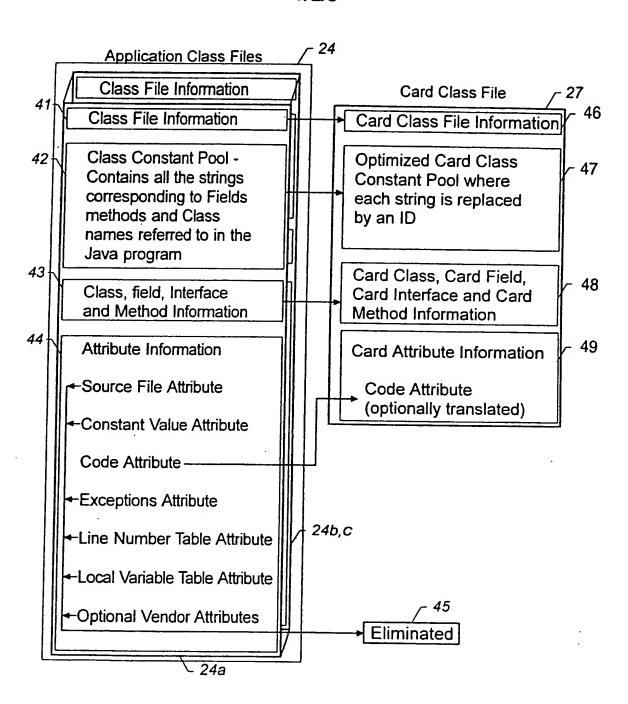
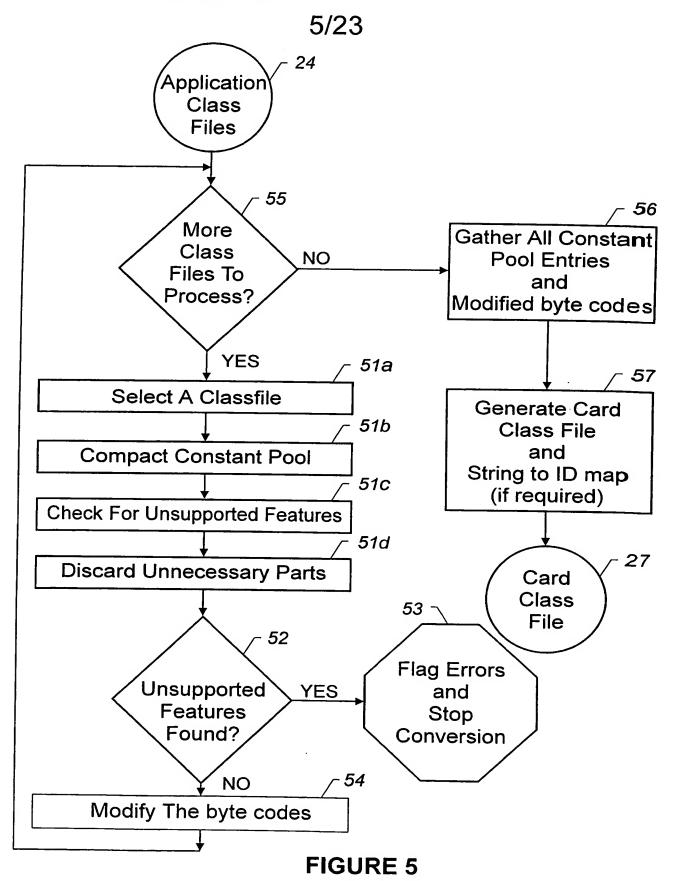


FIGURE 4

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6/23 Original byte codes 60 61 PASS 1: List all jumps and their destinations 62 Translate NO specific byte codes? YES 63 PASS 2: Convert specific byte codes into generic byte codes 64 PASS 3: Relink References 65 NO Modify byte codes? YES 66 PASS 4: Modify Java byte codes to Card JVM byte codes 67 PASS 5: Readjust Jumps Modified byte codes FIGURE 6

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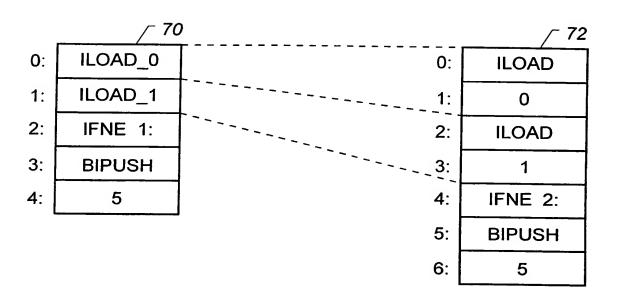
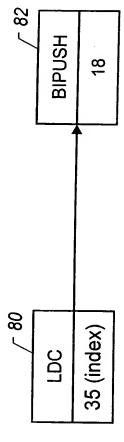


FIGURE 7

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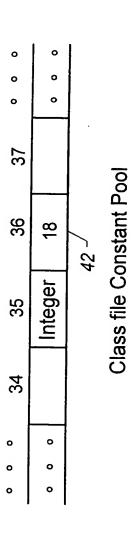


FIGURE 8

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Serial No. 10/037,390

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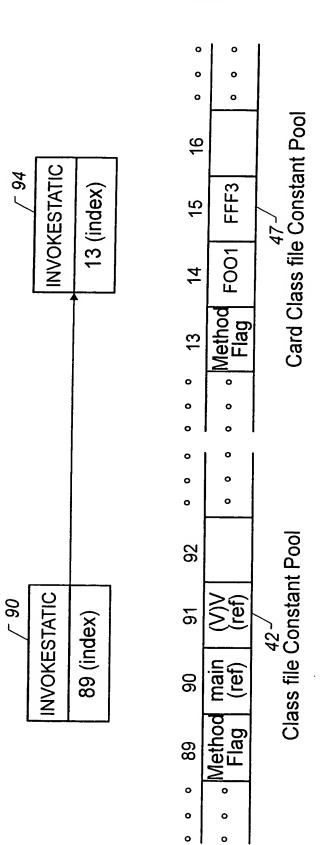


FIGURE 9

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0: ALOAD 43

1: 0

2: ILOAD 21

3: 1

4: IFNE 154 2:

5: BIPUSH 16

6: 5

0: ALOAD 51
1: 0
2: ILOAD 50
3: 1
4: IFNE 27 2:
5: BIPUSH 49
6: 5

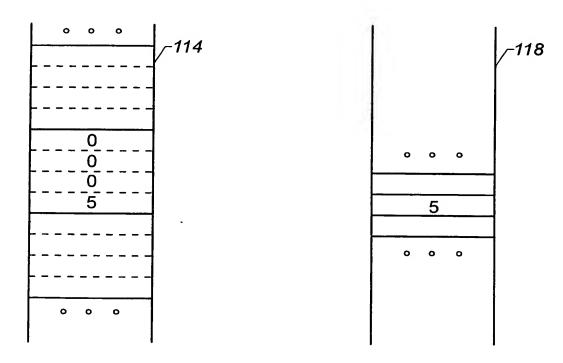
FIGURE 10

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Word-Based Operand Stack

Byte-Based Operand Stack

FIGURE 11

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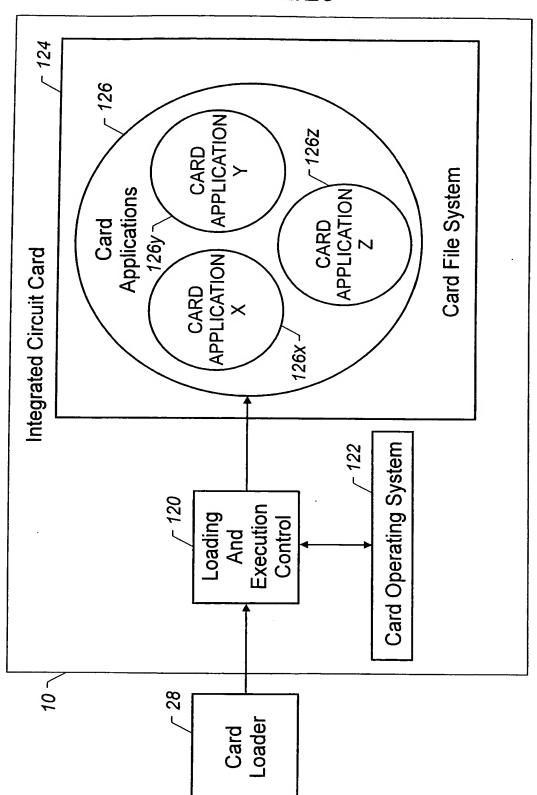
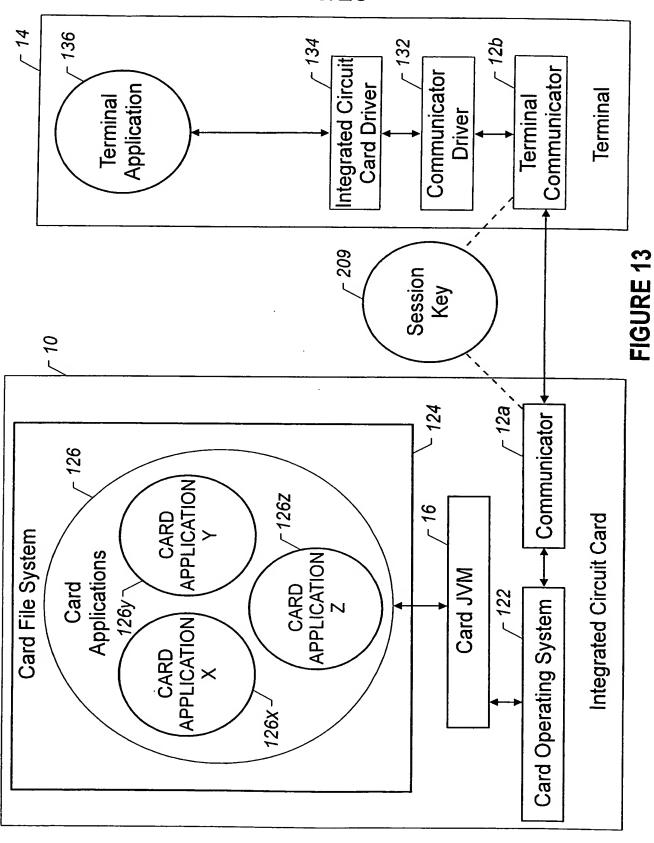


FIGURE 12

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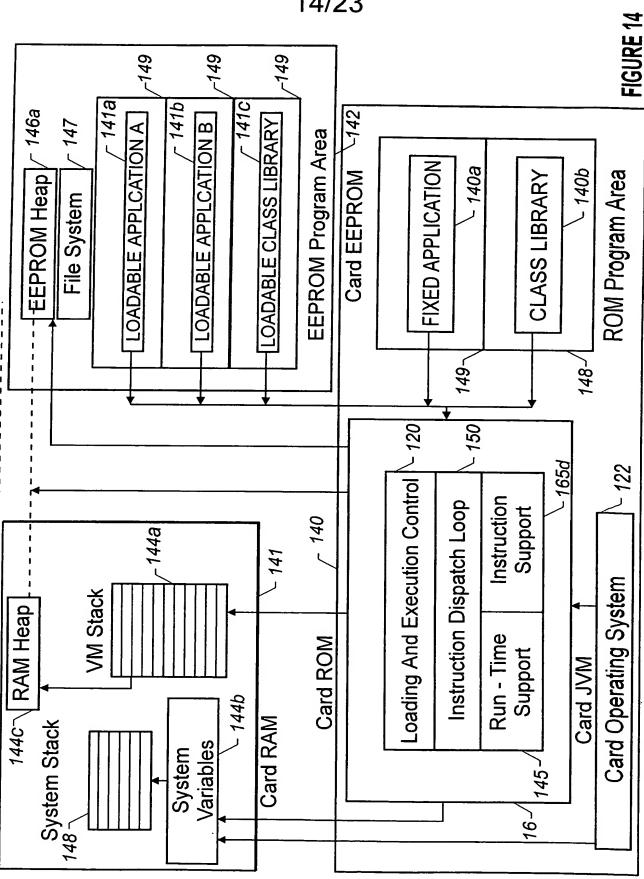
applicant: Wilkinson et al.

itle: Using a High Level Programming Language with a

Serial No. 10/037,390

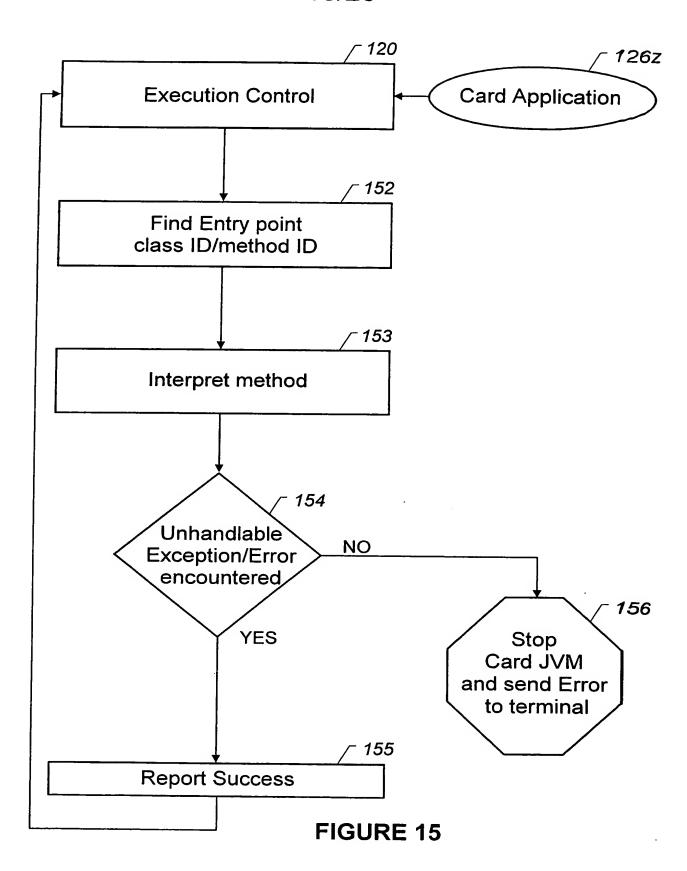
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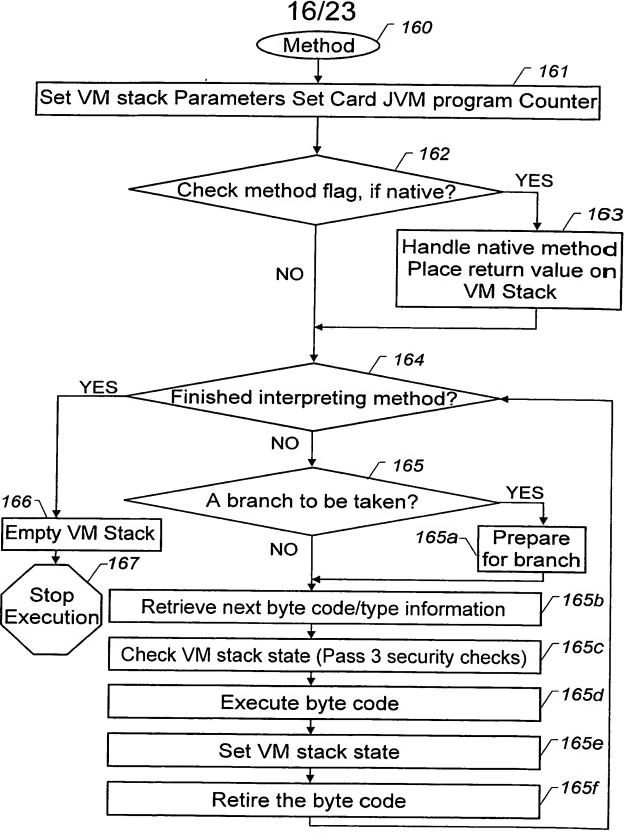


FIGURE 16

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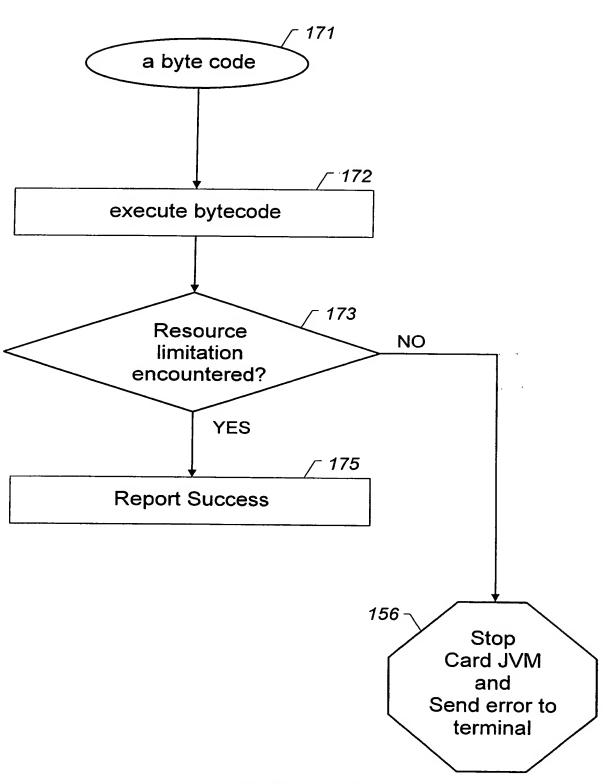


FIGURE 17

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tle: Using a High Level Programming Language with a ontroller Serial No. 10/037,390

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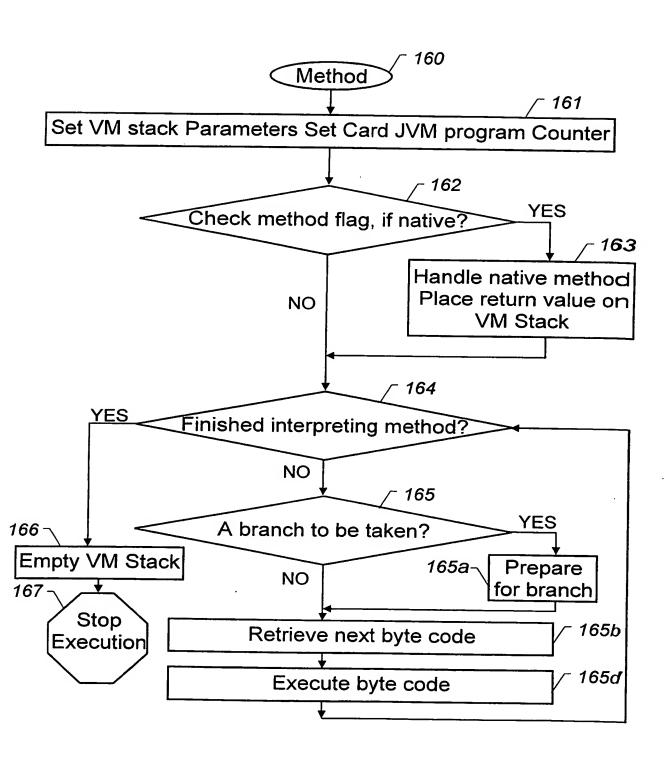


FIGURE 18

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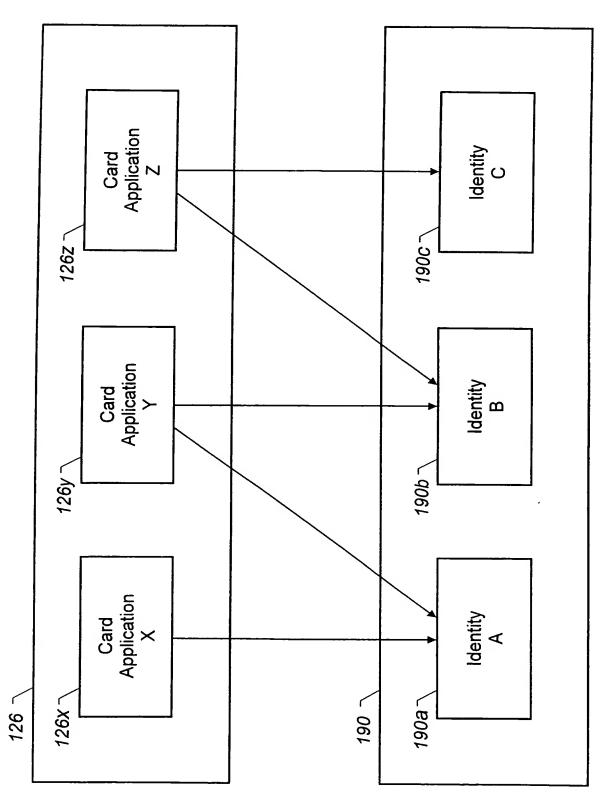


FIGURE 19

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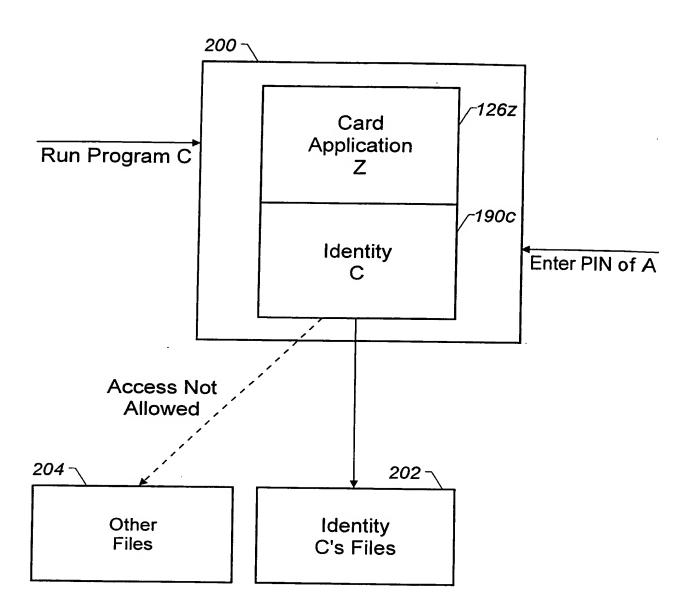


FIGURE 20

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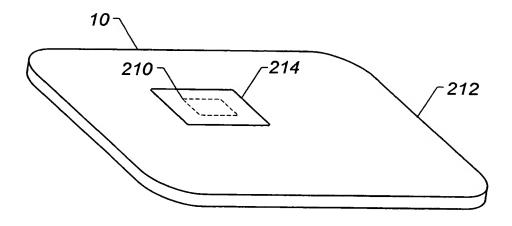
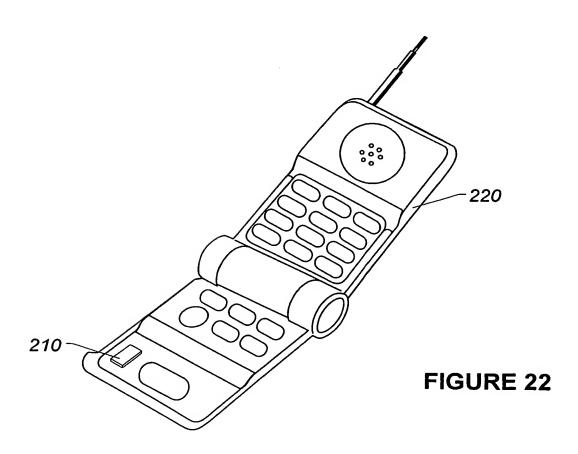


FIGURE 21



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itle: Using a High Level Programming Language with a N
Serial No. 10/037,390
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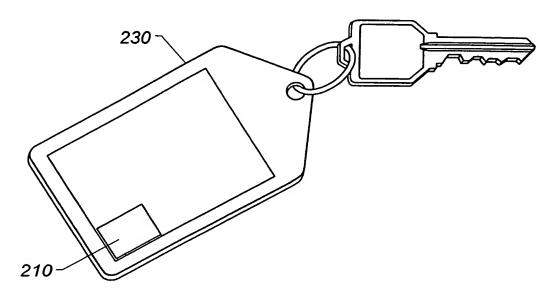


FIGURE 23

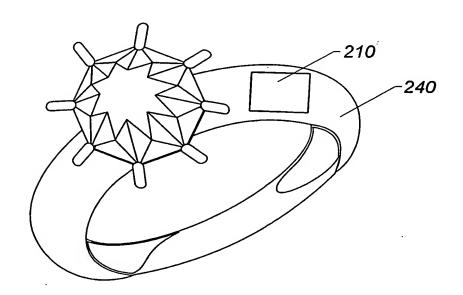
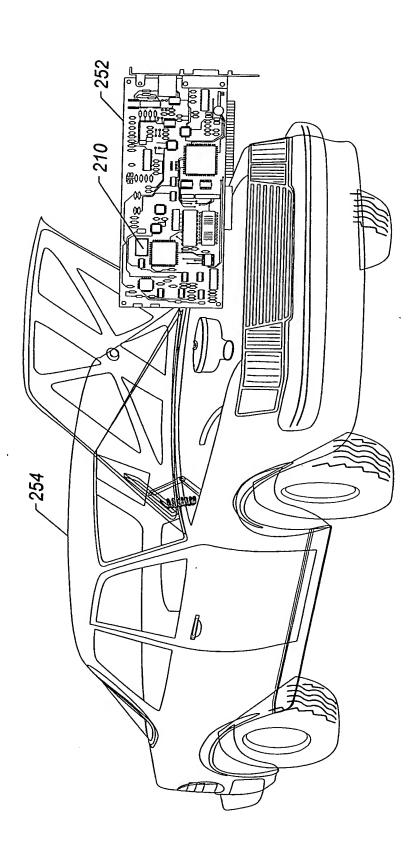


FIGURE 24

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# **FIGURE 25**